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An Extraſt

Of a Letter, written by D. B. to the Publisher, concerning the preſent Declination of the Magnetick Needle, and the Tydes, May 23. 1668.

Sir, I here preſent you with a Scheme of the *Magnetical Variations*, as it was ſent me by Capt. *Samuel Sturmy*, an experienced Seaman, and a Commander of a Merchant Ship for many years; who (as he affures me) took the Observations himſelf in the preſence of Mr. *Stayned*, an ancient Mathematician, & others, in *Rownham-Meadowes* by the water-ſide, in ſome ſuch approach, I think, to *Briſtol*, as *Lime-houſe* or the Fields adjoining are to *London*. This (as the Table ſhews) was taken *June 13. 1666*. They obſerved again in the ſame day of the next year, *viz. June 13. 1667*; and then they found the Variation increaſ'd about 6. minutes *Westerly*.

Now he promiſeth to take the Observations in the ſame Company and Place, on the *13th. June* next following, with a Quadrant of 6 foot *radius*, accurately divided into minutes, and with a very good Needle about 8. inches long; and he doubts not, but the Observations ſhall be as exactly made, as can be done by any Men in any place of the World.

He adds, that he has found in ſeveral places or Meridians, upon his own Observations, from 2. min. to 7. minutes ſome difference. In this Table he notes the greateſt diſtance or difference to be 14. minutes; and ſo taking the *mean* for the true *Variation*, he concludes it then and there to be juſt 1. deg. 27. min. *viz. June 13. 1666*.

The ſame perſon promiſeth an exact accompt concerning
Tydes

Observed June 13. 1668.							
Sun's-Observ'd Altitude.		Magne- tical Azimuth.		Suns true Azimuth.		Variat. Wester- ly.	
Gr.	M.	Gr.	M.	Gr.	M.	G.	M.
44	20	72	00	70	38	1	22
39	30	80	00	78	24	1	36
31	50	90	00	88	26	1	34
27	43	95	00	93	36	1	24
23	20	103	00	101	23	1	23

Tydes there, according to the directions formerly given in the *Transactions*. At present he assureth from many former Observations, that the biggest *Spring-Tydes*, and *Annual Tydes* there, are about the *Aequinoxes*, according as the Moon is neer the Full, or Change, before or after that time. Of this you may expect a more perfect account hereafter.

An Extract.

Of a Letter concerning an Optical Experiment, conducive to a decayed Sight, communicated by a Worthy person, who found the benefit of it himself.

I Am to acquaint you of an Experiment, if it may deserve that name, and not rather that of a Trifle; the matter of which is known to many, but un-applied (for ought I know) to such use as it affords. And the use is to my self of greater value, than you'll easily imagine, and I think, it may be equally profitable to many. Thus it is: you know, I have mourn'd for the loss of my eyes. I confess my unmanliness, that I have shed many tears in my study for want of them; but that was quite out of the way of recovering them. I know not, whether by standing much before a blazing Fire, or by writing often right before a bright Window, or what else might be the cause of this decay of my sight, who am not above 60 years of age. But I seem'd alwayes to have a kind of thick smoak or mist about me, and some little black balls to dance in the air about my eyes, and to be in the case, as If I came into a room suddenly from a long walk in a great Snow. But so it was, I could not distinguish the Faces of my acquaintance, nor Men from Women in rooms that wanted no light. I could not read the great and black English Print in the Church-Bibles, nor keep the plain and trodden paths in Fields or Pastures, except I was led or guided. I received no benefit by any *Glasses*, but was in the case of those, whose decay by Age is greater than can be helped by *Spectacles*. The *fairest* Prints seemed through Spectacles like *blind* Prints, little black remaining.

Being in this sad plight, what trifle can you think hath brought me help, which I value more than a great Sum of Gold? Truly,